

Sub
A1

<120> HLA Class I A2 Tumor Associated Antigen
Peptides and Vaccine Compositions /

<140> US Not yet assigned

<141> Not yet assigned

<150> US 09/016,361

<151> 1998-01-30

<150> US 60/036,696

<151> 1998-01-31

<160> 57

<170> FastSEQ for Windows Version 3.0

 $\langle 210 \rangle$ 1

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<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> CEA.233V10

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Val Leu Tyr Gly Pro Asp Ala Pro Thr Val
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<223> CEA. 605V/9

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<223> CEA.687

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<223> Her2/neu.48

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<223> Her2/neu.435

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<223> CEA.691

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<223> Her2/neu.369

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<223> MAGE2.157

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<223> Her2/neu.952

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standard peptide 553.01

<400> 26
Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu
1 5 10

<210> 27
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Asn Val Val Asn Ser
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<210> 28
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<220>
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<223> pan-DR binding epitope peptide

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<222> (3)...(3)
<223> Xaa = cyclohexylalanine, Phe or Tyr

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<222> (7)...(7)
<223> Xaa = Trp, Tyr, His or Asn

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<220>
<223> alternative preferred PADRE peptide

<221> MOD_RES
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<210> 32
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1 5 10

<210> 33
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<220>
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1 5 10

<210> 34
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<221> MOD_RES
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<210> 35
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<400> 35
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1 5 10

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<221> MOD_RES
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<223> Xaa = cyclohexylalanine

<400> 37
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1 5 10

<210> 38
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<400> 38
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1 5 10

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<400> 39
Ala Lys Phe Val Ala Ala Asn Thr Leu Lys Ala Ala Ala
1 5 10

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<400> 41
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1 5

<210> 47
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<220>
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1 5

<210> 49
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<220>
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<400> 53
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<210> 55
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<400> 55
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<210> 56
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Val Thr Pro Arg Thr Pro Pro Pro
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$\langle 211 \rangle$ 13

<213> Artificial Sequence

<223> standard peptide 511

Asn Gly Gln Ile Gly Asn Asp Pro Asn Arg Asp Ile Leu
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13